

We claim:

1. A polyoxyalkylene block copolymer, wherein the polyoxyalkylene block copolymer transforms from a liquid to a gel over a temperature range of about 2 °C to about 5 °C.
2. The polyoxyalkylene block copolymer of claim 1, wherein the polyoxyalkylene block copolymer transforms from a liquid to a gel over a temperature range of about 2 °C to about 3 °C.
3. The polyoxyalkylene block copolymer of claim 1, wherein the polyoxyalkylene block copolymer transforms from a liquid to a gel over a temperature range of about 2 °C.
4. The polyoxyalkylene block copolymer of claim 1, wherein the polyoxyalkylene block copolymer transforms from a liquid to a gel below about 37 °C.
5. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer has an average molecular weight of about 3,000 daltons to about 100,000 daltons.
6. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer has an average molecular weight of about 5,000 daltons to about 30,000 daltons.
7. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer is selected from the group consisting of poloxamers and poloxamines.
8. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer is a poloxamer.
9. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer is poloxamer 407, poloxamer 338, poloxamer 288 or poloxamer 188.
10. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer is a poloxamine.
11. The polyoxyalkylene block copolymer of any of claims 1-4, wherein the polyoxyalkylene block copolymer is poloxamine 1107 or poloxamine 1307.

12. A polyoxyalkylene block copolymer, wherein the viscosity of an aqueous solution of the polyoxyalkylene block copolymer increases by at least a factor of two over a temperature range of about 2 °C.
13. The polyoxyalkylene block copolymer of claim 12, wherein the polyoxyalkylene block copolymer has an average molecular weight of about 3,000 daltons to about 100,000 daltons.
14. The polyoxyalkylene block copolymer of claim 12, wherein the polyoxyalkylene block copolymer has an average molecular weight of about 5,000 daltons to about 30,000 daltons.
15. The polyoxyalkylene block copolymer of any of claims 12-14, wherein the polyoxyalkylene block copolymer is selected from the group consisting of poloxamers and poloxamines.
16. The polyoxyalkylene block copolymer of any of claims 12-14, wherein the polyoxyalkylene block copolymer is a poloxamer.
17. The polyoxyalkylene block copolymer of any of claims 12-14, wherein the polyoxyalkylene block copolymer is poloxamer 407, poloxamer 338, poloxamer 288 or poloxamer 188.
18. The polyoxyalkylene block copolymer of any of claims 12-14, wherein the polyoxyalkylene block copolymer is a poloxamine.
19. The polyoxyalkylene block copolymer of any of claims 12-14, wherein the polyoxyalkylene block copolymer is poloxamine 1107 or poloxamine 1307.
20. A kit comprising the polyoxyalkylene block copolymer of claim 1 or 12; and instructions for use thereof.